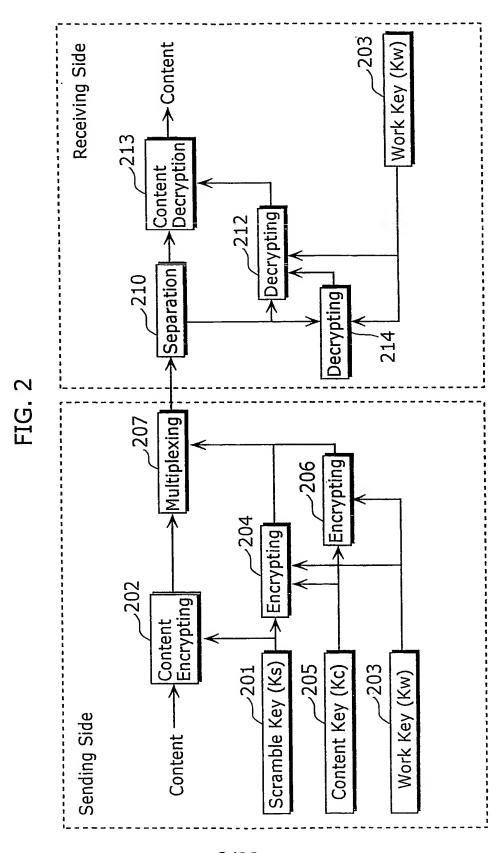


Best Available Copy



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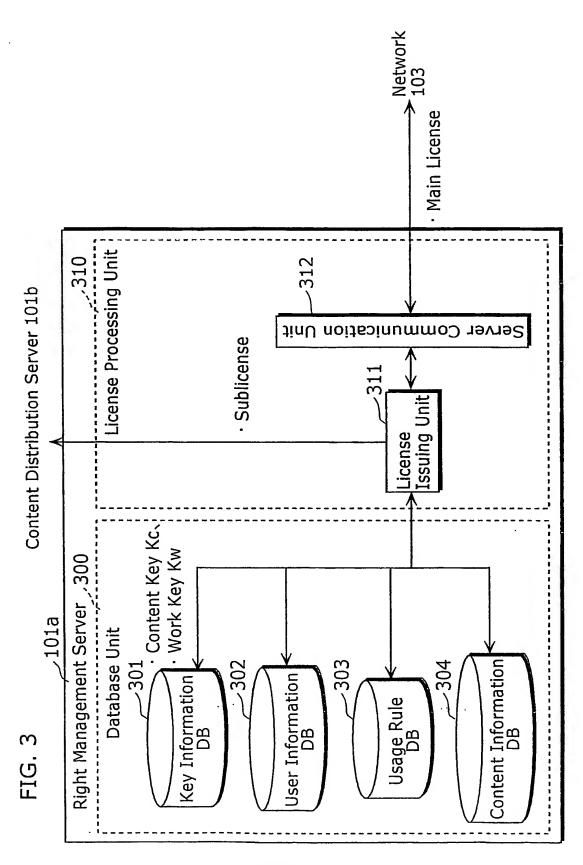


FIG. 4

400	203	Work Key Kw	0x2340685345310911	0xabcabcabcabcab	
Work Key Management Table 400	405	Work Key ID	Kw-ID-00001	Kw-ID-00002	
Wc	401	Contract ID	CONTRACT-ID-00001	CONTRACT-ID-00002	-

FIG. 5

Content Key Management Table 500

501ر	205
Content ID	Content Key Kc
CONTENT-ID-00001	0x1234567890abcdef
CONTENT-ID-00002	0x43195745a4098b4e
CONTENT-ID-00003	0x3970584ad3922247
CONTENT-ID-00004	0x2411197120121974
•••	• • •

FIG. 6
User Information Management Table 600

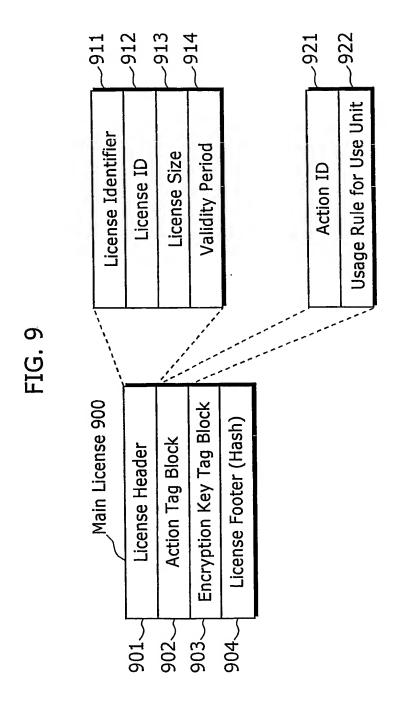
601	602
User ID	Terminal ID
USER-ID-00001	TERMINAL-ID-00001
USER-ID-00002	TERMINAL-ID-12345 TERMINAL-ID-54321
USER-ID-00003	TERMINAL-ID-77777
USER-ID-00004	TERMINAL-ID-99999
	• • •

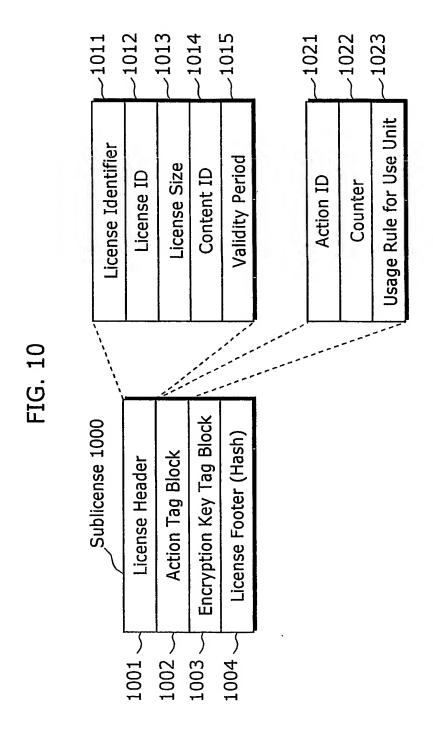
Issuing Permission Remaining Times 705 2 Usage Rule Management Table 700 URUS-ID-24024|CONTRACT-ID-02804|2003/11/24~2004/12/23 2003/12/31~2004/1/30 2003/12/1~2004/12/31 704 Validity Period 8 703 URUS-ID-00001 CONTRACT-ID-00001 URUS-ID-00002 CONTRACT-ID-13452 USER-ID-00002 | URUS-ID-10011 | CONTRACT-ID-99999 Contract ID 702 Usage Rule USER-ID-00003 701 USER-ID-00002 JSER-ID-00001 User ID

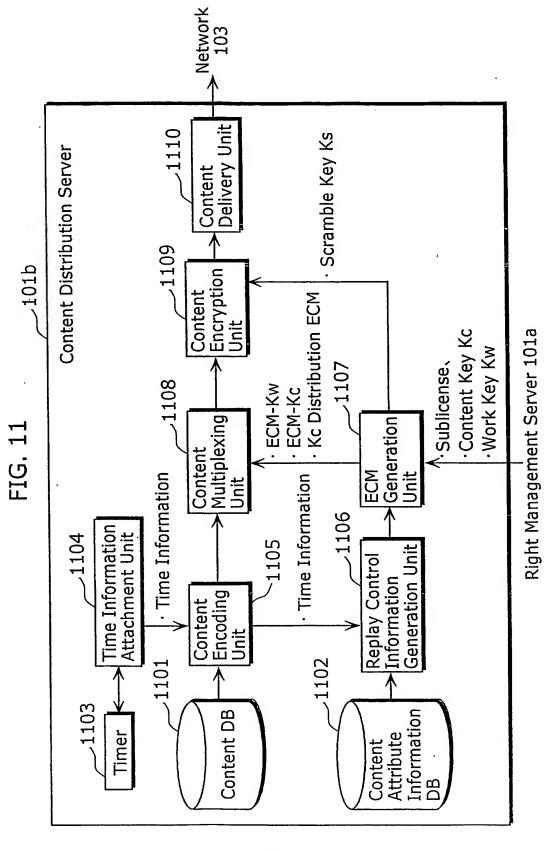
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-IG. 8

le 800	804	Use Permission Times	8	8	1	5	•
Content Information Management Table 800	803	Validity Period	2003/12/31~2004/1/30	LICENSE-ID-00002 2003/12/1~2004/12/31	8	LICENSE-ID-00004 2003/11/24~2004/12/23	
Content 1	805	License ID	LICENSE-ID-00001	LICENSE-ID-00002	LICENSE-ID-00003	LICENSE-ID-00004	•
	801	Content ID	CONTENT-ID-00001	CONTENT-ID-00002	CONTENT-ID-00003	CONTENT-ID-00004	•



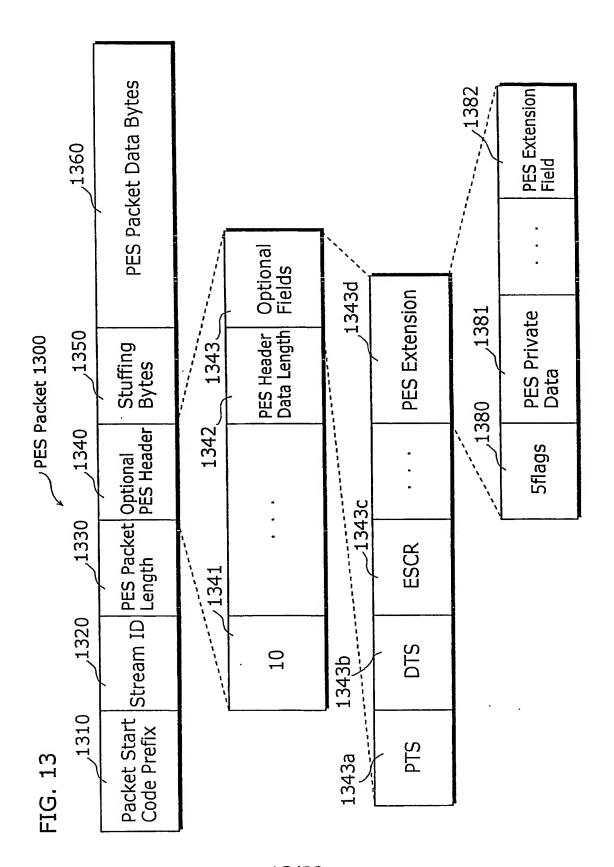


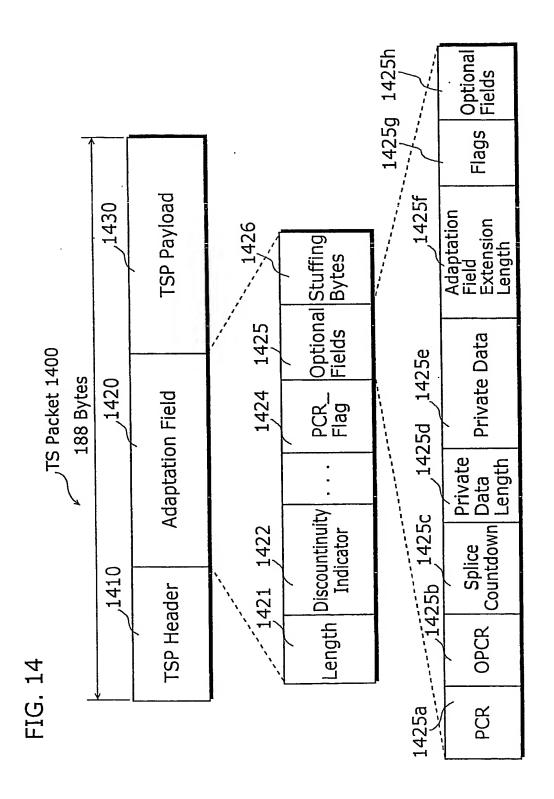


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FIG. 12

1200		:	· .	:	
nagement Table	1204	CM Section	5Min.~8Min. 20Min.~25Min. 40Min.~43Min.		•
Content Attribute Information Management Table 1200	1203	Preview Permitted Section	0Min.∼10Min.	Real Time: OMin.~10Min. Stored: 5Min.~10Min. 20Min.~30Min.	•
Conte	1202	Content Name	Inoue Tetsuya NEWS 23	Product X	•
	1201	Content ID	CONTENT-ID-00001	CONTENT-ID-00002	





_1524 -15221521 Control Start Time n Control End Time n Number of Control Time Information Control Start Time Control End Time 1514 1513 1511 1512 Number of Control Times Control Expiration Number of Control Control Range Control ID Information Control Information Tag Block 1500 Control Information Tag Value Control Information Length Control Information 1503

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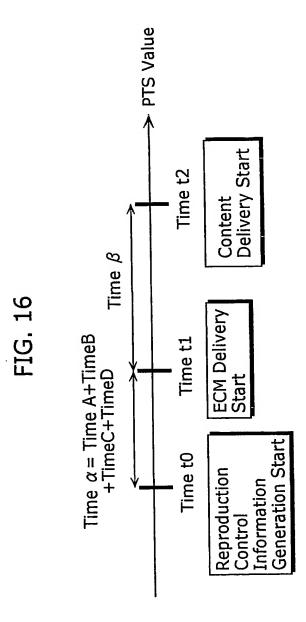


FIG. 17

1

FIG. 18

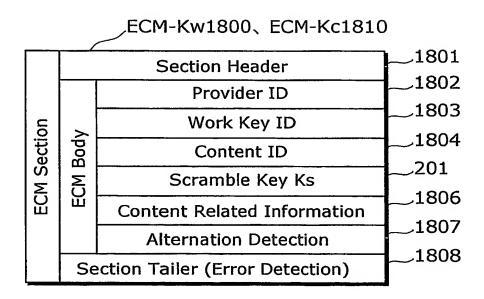
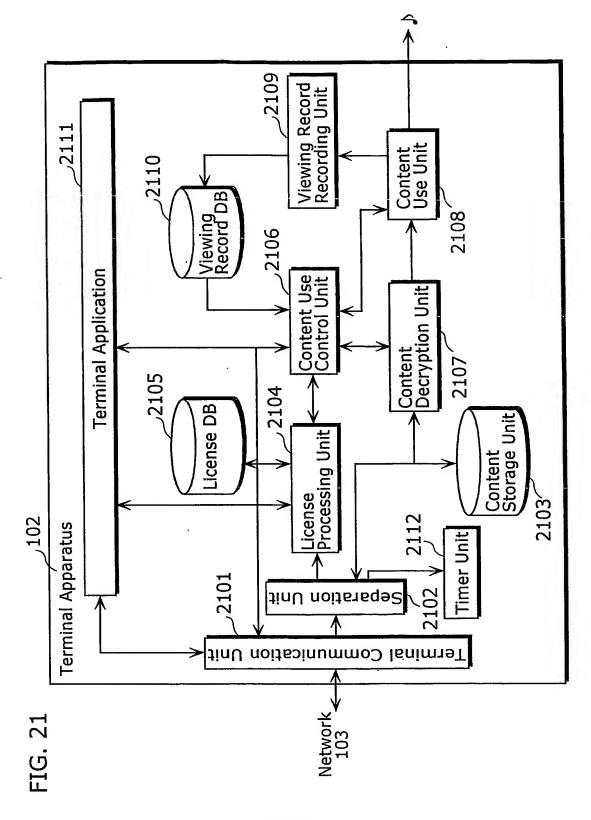


FIG. 19

	Kc Distribution ECM 1900				
		Section Header	1901		
۾		Provider ID	1902		
ECM Section	ECM Body	Work Key ID	1903 1000		
M S	ZM E	Sub License			
EC	Ш	Alternation Detection	1904 1905		
	Error Detection (Section Tailer)				

FIG. 20

Sublicense 1000	
License Header	1001
Action Tag Block	1002
Encryption Key Tag Block	1003
Control Information Tag Block	1500
License Footer (Hash)	1004



LICENSE-ID-223606 TERMINAL-ID-00001 CONTENT-ID-00001 2003/1/1 10:00:00 39705843970 USER-ID-00001 32141683 13970584 13999999 XDRM-UL 128 Play Ŋ Number of Time Information Start Time InformationN Start Time Information1 **End Time InformationN** End Time Information1 ~ UL2200 Use Start Time **UL Identifier** Action Type Terminal ID Content ID License ID User ID UL Size Time Information 2201~ 2202 2203~ 2204 2205~ 2207 2206~ 2208~ 2209~

FIG. 23

Expected LT Inform	mation (ELI) 2300
ELI Identifier	2301
Terminal ID	2302
Use Condition ID	2303
Contract ID	2304

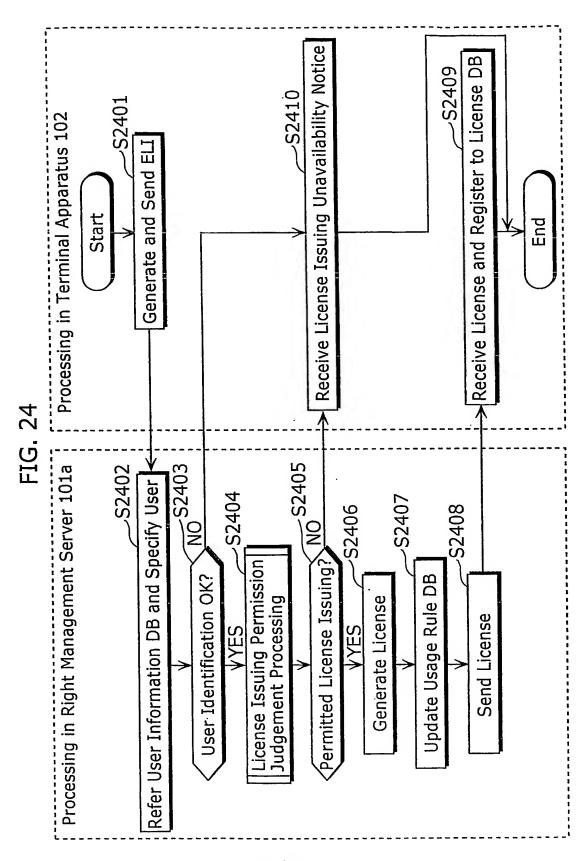


FIG. 25 Start -S2501 NO Have Usage Rule ID Specified by ELI? YES S2502 NO Satisfy Validity Period? YES S2503 NO Have Remaining Issuing Permissions? YES S2504 S2505 Judge License Issuing Unavailable Judge License Issuing Permitted Return

FIG. 26

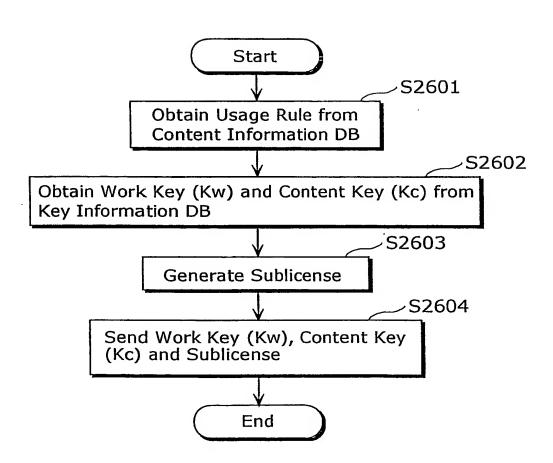


FIG. 27

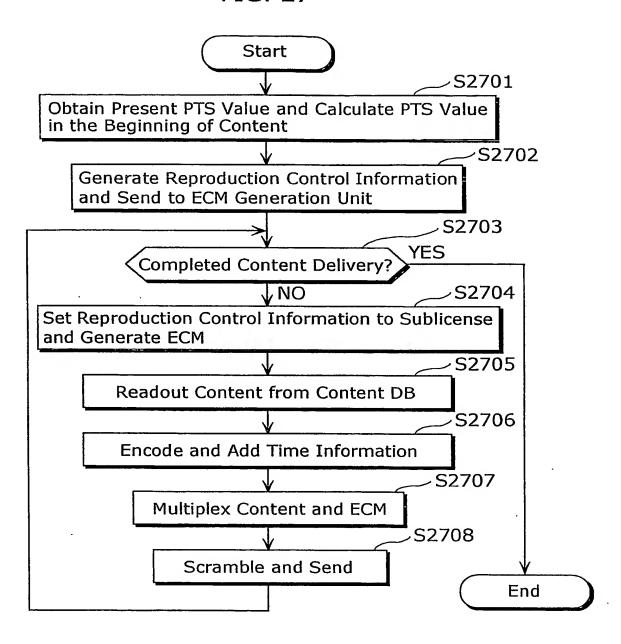
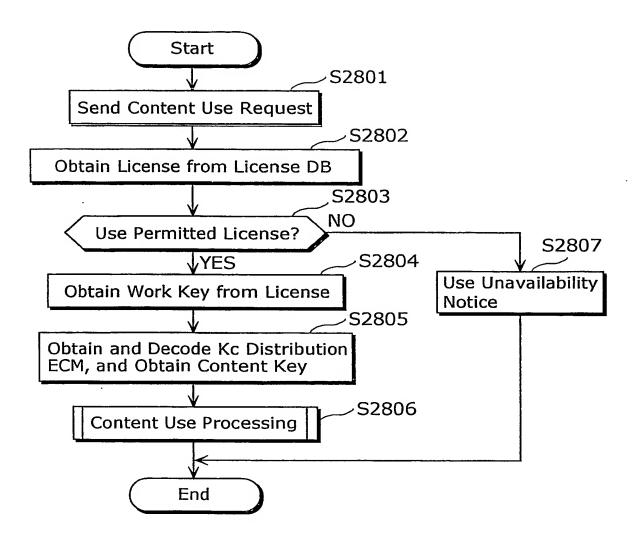


FIG. 28



Start
S2901
Readout Content
S2902
Completed Content Reproduction?
YES
NO
S2903
Decode ECM-Kc, Obtain Scramble Key Ks
S2904
Descramble and Decode Content
Record PTS of Viewed Section
Return

WO 2005/046167

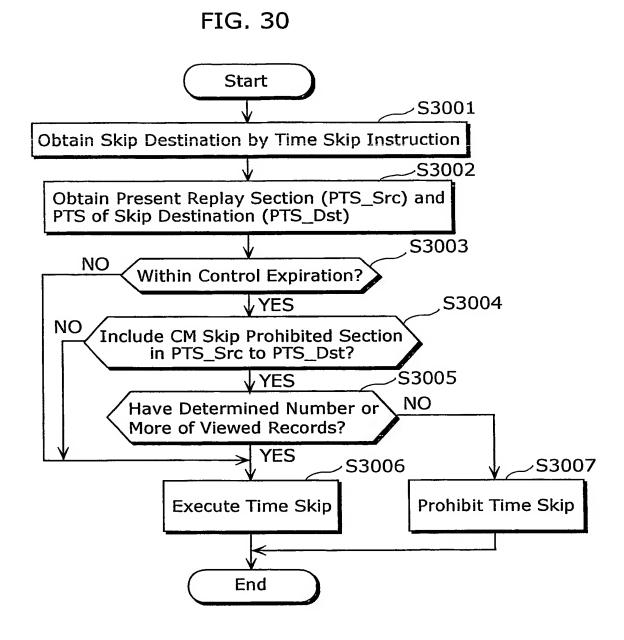
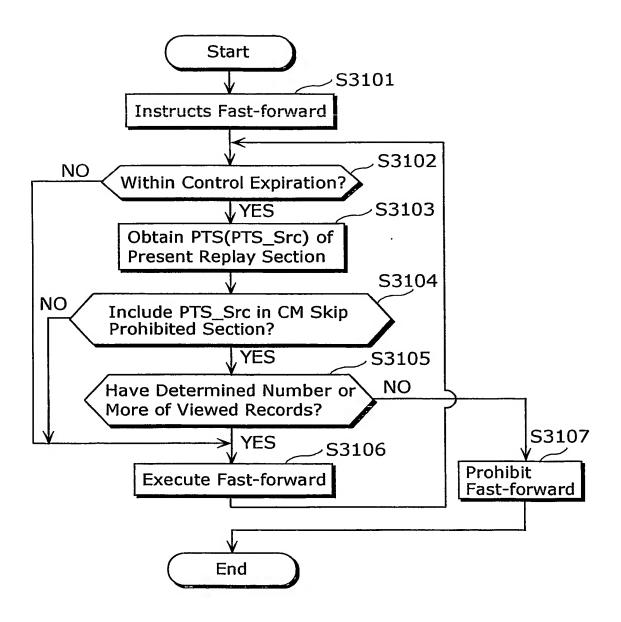


FIG. 31



Start S3201 **Instruct Preview** S3202 NO Within Control Expiration **↓YES** S3203 Obtain PTS(PTS_Src) of Present Replay Section S3204 NO Include PTS_Src in Preview Section YES S3205 NO Have Determined Number or More of Viewed Records? YES >S3206 S3207 **Execute Preview Prohibit Preview**

FIG. 32

End